

## United States Patent and Trademark Office



UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/510,281	10/19/2005	Dae-sik Kim	Q83811	7534	
23373 SUGHRUE M	7590 05/16/2007 HON PLLC		EXAM	EXAMINER	
2100 PENNSYLVANIA AVENUE, N.W.			DOWLING, WILLIAM C		
SUITE 800 WASHINGTO	DN. DC 20037		ART UNIT	PAPER NUMBER	
	,, = = = = = = = = = = = = = = = = = =		2851		
			MAIL DATE	DELIVERY MODE	
			05/16/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
	10/510,281	KIM ET AL.				
Office Action Summary	Examiner	Art Unit				
	William C. Dowling	2851				
The MAILING DATE of this communication ap						
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REP WHICHEVER IS LONGER, FROM THE MAILING [ - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the maili earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNION (1964). In no event, however, may a red will apply and will expire SIX (6) MON te, cause the application to become AB	CATION.  reply be timely filed  ITHS from the mailing date of this communication.  BANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 19	Responsive to communication(s) filed on <u>19 October 2005</u> .					
· —	, <u> </u>					
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under	Ex parte Quayle, 1935 C.D.	0. 11, 453 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) <u>1-110</u> is/are pending in the applicati	4)⊠ Claim(s) <u>1-110</u> is/are pending in the application.					
4a) Of the above claim(s) is/are withdra	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
6) Claim(s) is/are rejected.	3) Claim(s) is/are rejected.					
7) Claim(s) is/are objected to.						
8) Claim(s) <u>1-110</u> are subject to restriction and/	or election requirement.					
Application Papers						
9) The specification is objected to by the Examir	ner.					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the E	Examiner. Note the attached	d Office Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of:	n priority under 35 U.S.C. §	§ 119(a)-(d) or (f).				
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the pri	ority documents have been	received in this National Stage				
application from the International Bure	au (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a lis	st of the certified copies not	received.				
	•					
Attachment(s)	·	·				
1) Notice of References Cited (PTO-892)		Summary (PTO-413)				
<ul> <li>2) Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>3) Information Disclosure Statement(s) (PTO/SB/08)</li> </ul>		s)/Mail Date nformal Patent Application				
Paper No(s)/Mail Date	6)  Other:					

## DETAILED ACTION

Page 2

## Election/Restrictions

1. Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I, claim(s) 1-34, drawn to a lighting unit and it's use within a projection system. Group II, claim(s) 35-49, 56-73, 82-95, drawn to a scrolling unit for converting light by rotation of the cell into rectilinear motion of a lens array and it's use in a projection system.

Group III, claim(s) 50-55, 96-110, drawn to a scrolling unit wherein the position of at least one cell changes as the scrolling unit rotates and its use in a projection system. Group IV, claim(s) 74-81, drawn to a projection system having a scrolling unit manufactured of a diffractive element and a hologram element.

2. The inventions listed as Groups I, II, III, and IV do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: They possess different structural elements not necessarily usable together.

Art Unit: 2851

3. Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Should applicant traverse on the ground that the inventions or species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions or species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C.103(a) of the other invention.

4. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to William C. Dowling whose telephone number is 571-272-2116. The examiner can normally be reached on MON-THURS.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Diane Lee can be reached on 571-272-2399. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

William C. Dowling Primary Examiner Art Unit 2851

wcd